HEALTH CAREERS I/ ADVANCED HEALTH CAREERS

MIS03 07033 & 07035

Health Careers I 07033

The Health Careers course is designed to assist students interested in the medical field in determining an occupation that will best suit their capabilities and interests. The program uses a competency based curriculum that is fundamental to a variety of careers in the health care industry. "CORE" knowledge and skills are introduced the first semester to the students as a foundation in such areas as; Medical Terminology, Anatomy and Related Disorders, Professional Standards, Safety, Monitoring Body Functions, Disease Prevention, CPR and First Aid Certification and Introduction to Health Careers. The second semester provides the students the opportunity to expand their skills and knowledge in specific areas of career interest. Career choices such as Physical Therapy, Occupational Therapy, Pharmacy, Optometry, Radiology, Respiratory Therapy, Medical Records and Secretarial, Dental Careers, Medical Lab, Medical Assisting, Child Care, Nursing, Nursing Assisting and others will be offered. Students may be placed in the community health care setting for on-the-job career experience any time after completion of the CORE segment. Emphasis on academics, professional development, leadership, and organizational skills are integrated throughout the curriculum

Advanced Health Careers 07035

• Prerequisite: Health Careers I -07033

The Advanced Health Careers program has been developed to provide students interests in the medical field an in-depth study of a career of their choice which best suits their capabilities and interests. The program is a competency based individualized curriculum in which the student will learn to balance various aspects of health and wellness, improve self-esteem, and make knowledgeable decisions regarding their career choices. It is a 360 hour program designed for the student who has completed a minimum of 180 hours of Health Careers and plans to further their education in a medical field or plans to seek employment immediately following graduation. A primary component of the Advanced Health Careers course offers in-depth career studies. Students will expand their skills and knowledge in specific areas of interest during clinical rotations in the community. Emphasis on academics, professional development, leadership, and organizational skills are integrated throughout the curriculum.

Credit Health Careers I Advanced Health Careers

1 or 2 credits 1 or 2 credits

Level Health Careers I Advanced Health Careers

Grades 10-12 Grades 11-12

The intention of this Framework is to set those competencies needed by the completion of both courses in the series.

Standard

HEALTH SCIENCE ACADEMIC FOUNDATION

-Understand human anatomy, physiology, common diseases and disorders, and medical math principles.

Topic 1.1 Human Anatomy and Physiology

T.T	Human Anatomy and Physiology				
	Student Competencies				
		Identify basic levels of organization of the human body.			
		a. Chemical			
		b. Cellular			
	1.1.1	c. Tissue			
		d. Organs			
		e. Systems			
		f. Organism			
		Identify body planes, directional terms, cavities, and quadrants.			
		a. Body planes (sagittal, mid-sagittal, coronal/frontal, transverse/horizontal)			
	1.1.2	b. Directional terms (superior, inferior, anterior/ventral, posterior/dorsal, medial, lateral, proximal, distal,			
	1.1.2	superficial, and deep)			
		c. Cavities (dorsal, cranial, spinal, thoracic, abdominal, and pelvic)			
		d. Quadrants (upper right, lower right, upper left, and lower left)			
		Analyze basic structures and functions of human body systems (skeletal, muscular, integumentary, cardiovascular,			
		lymphatic, respiratory, nervous, special senses, endocrine, digestive, urinary, and reproductive).			
		a. Skeletal (bone anatomy, axial and appendicular skeletal bones, functions of bones, ligaments, types of			
		joints)			
		b. Muscular (microscopic anatomy of muscle tissue, types of muscle, locations of skeletal muscles,			
		functions of muscles, tendons, directional movements)			
		c. Integumentary (layers, structures and functions of skin)			
	1.1.3	d. Cardiovascular (components of blood, structures and functions of blood components, structures and			
	1.1.5	functions of the cardiovascular system, conduction system of the heart, cardiac cycle)			
		e. Lymphatic (structures and functions of lymphatic system, movement of lymph fluid)			
		f. Respiratory (structures and functions of respiratory system, physiology of respiration)			
		g. Nervous (structures and functions of nervous tissue and system, organization of nervous system)			
		h. Special senses (structures and functions of eye, ear, nose and tongue; identify senses for sight, hearing,			
		smell, taste, touch)			
		i. Endocrine (endocrine versus exocrine, structures and functions of endocrine system, hormones,			
		regulation of hormones)			

		j. Digestive (structures and functions of gastrointestinal tract, chemical and mechanical digestion,
		structures and functions of accessory organs)
		k. Urinary (structures and functions of urinary system, gross and microscopic anatomy, process of urine
		formation, urine composition, homeostatic balance)
		1. Reproductive (structures and functions of male and female reproductive systems, formation of gametes,
		hormone production and effects, menstrual cycle, and conception)
Topic 1.2	Diseases at	nd Disorders
10pic 1.2	Discuses an	Student Competencies
		Describe common diseases and disorders of each body system (such as: cancer, diabetes, dementia, stroke, heart
		disease, tuberculosis, hepatitis, COPD, kidney disease, arthritis, ulcers).
	1.2.1	a. Etiology
	1.2.1	b. Pathology
		c. Diagnosis
		d. Treatment
		e. Prevention
	1.2.2	Discuss research related to emerging diseases and disorders (such as: autism, VRSA, PTSD, Listeria, seasonal flu).
Topic 1.3	Medical M	athematics
		Student Competencies
		Demonstrate competency in basic math skills and mathematical conversions as they relate to healthcare.
		a. Metric system (such as: centi, milli, kilo)
	1.3.1	b. Mathematical (average, ratios, fractions, percentages, addition, subtraction, multiplication, division)
		c. Conversions (height, weight/mass, length, volume, temperature, household measurements)
	1.3.2	Demonstrate the ability to analyze diagrams, charts, graphs, and tables to interpret healthcare results.
	1.3.3	Demonstrate use of the 24-hour clock/military time.
	1.5.5	Demonstrate use of the 24-nour clock/inintary time.
Standard	COM	MUNICATION
2		
4	-1	Demonstrate methods of delivering and obtaining information, while communicating effectively.
Topic 2.1	Concepts	of Effective Communication
-	•	Student Competencies
	2.1.1	Model verbal and nonverbal communication.
		Identify common barriers to communication.
	2.1.2	a. Physical disabilities (aphasia, hearing loss, impaired vision)
	2.1.2	b. Psychological barriers (attitudes, bias, prejudice, stereotyping)
	2.1.3	Identify the differences between subjective and objective information.

	2.1.4	Interpret elements of communication using basic sender-receiver-message-feedback model.		
	2.1.5	Practice speaking and active listening skills.		
	2.1.6	Modify communication to meet the needs of the patient/client and be appropriate to the situation.		
Topic 2.2	Medical T	erminology		
•		Student Competencies		
	2.2.1	Use common roots, prefixes, and suffixes to communicate information.		
		Interpret medical abbreviations to communicate information.		
	2.2.2	a. Common abbreviations		
		b. Joint Commission official "Do Not Use List"		
Topic 2.3	Written C	Communication Skills		
		Student Competencies		
	2.3.1	Utilize proper elements of written and electronic communication (spelling, grammar, and formatting).		
	2.3.2	Prepare examples of technical, informative, and creative writing.		
3		-Identify how key systems affect services performed and quality of care.		
Topic 3.1	Healthca	re Delivery Systems		
		Student Competencies		
	3.1.1	Compare healthcare delivery systems.		
	3.1.1	 a. Non-profit and for profit (such as: hospitals, ambulatory facilities, long-term care facilities, home health, medical and dental offices, mental health services) b. Government (such as: CDC, EDA, WHO, OSHA, Public Health systems/Health Departments) 		
	3.1.1	 health, medical and dental offices, mental health services) b. Government (such as: CDC, FDA, WHO, OSHA, Public Health systems/Health Departments, Veteran's Administration) c. Non-profit (such as: March of Dimes, American Heart Association) 		
	3.1.2	health, medical and dental offices, mental health services) b. Government (such as: CDC, FDA, WHO, OSHA, Public Health systems/Health Departments, Veteran's Administration) c. Non-profit (such as: March of Dimes, American Heart Association) Describe the responsibilities of consumers within the healthcare system (such as: self-advocacy, patient compliance, provider and consumer obligations).		
		health, medical and dental offices, mental health services) b. Government (such as: CDC, FDA, WHO, OSHA, Public Health systems/Health Departments, Veteran's Administration) c. Non-profit (such as: March of Dimes, American Heart Association) Describe the responsibilities of consumers within the healthcare system (such as: self-advocacy, patient		

Standard	EMPLOYABILITY SKILLS			
4				
_	-Utilize employability skills to enhance employment opportunities and job satisfaction. Personal Traits of the Health Professional			
10pic 4.1	1 Cr Solidi 1	Student Competencies		
	4.1.1	Identify personal traits and attitudes desirable in a member of the career ready healthcare team. a. Acceptance of criticism b. Competence c. Dependability d. Discretion e. Empathy f. Enthusiasm g. Honesty h. Initiative i. Patience j. Responsibility k. Self-motivation 1. Tact m. Team player n. Willingness to learn		
	4.1.2	Summarize professional standards as they apply to hygiene, dress, language, confidentiality and behavior.		
Topic 4.2	Employabi			
•	1 0	Student Competencies		
	4.2.1	Apply employability skills in healthcare. a. Chain of command b. Correct grammar c. Decision making d. Flexible e. Initiative f. Integrity g. Loyalty h. Positive attitude i. Professional characteristics j. Prompt and prepared k. Responsibility		

		1. Scope of practice
		m. Teamwork
		n. Willing to learn
Topic 4.3	Career Dec	cision-making
		Student Competencies
	4.3.1	Research levels of education, credentialing requirements, and employment trends in health professions.
	4.3.2	Distinguish differences among careers within health science pathways (diagnostic services, therapeutic services, health informatics, support services, or biotechnology research and development).
Topic 4.4	Employabi	lity Preparation
_ ,	r 3	Student Competencies
		Develop components of a personal portfolio. a. Letter of introduction b. Resume c. Sample Projects
	4.4.1	d. Writing Sample e. Work-based Learning Documentation f. Oral Report g. Service Learning/Community Service h. Credentials i. Technology Skills
		j. Leadership Examples
	4.4.2	Identify strategies for pursuing employment (social media, personal networking, job sites, internships).
Standard 5		L RESPONSIBILITIES -Describe legal responsibilities, limitations, and implications on healthcare worker actions.
Topic 5.1	Legal Res	ponsibilities and Implications Student Competencies
	5.1.1	Analyze legal responsibilities and implications of criminal and civil law. a. Malpractice b. Negligence c. Assault d. Battery e. Invasion of privacy f. Abuse g. Libel

		h. Slander
Topic 5.2	Legal Pra	
1 opic 5.2	Legal Fra	Student Competencies
		Apply standards for the safety, privacy and confidentiality of health information (HIPAA, privileged
	5.2.1	communication).
	5.2.2	Describe advance directives.
	5.2.3	Summarize the essential characteristics of a patient's basic rights within a healthcare setting.
	5.2.4	Define informed consent.
	5.2.5	Explain laws governing harassment and scope of practice.
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		ICC
Standard	ETHI	
6	-Understa	and accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare
		environment.
Topic 6.1	Ethical P	
		Student Competencies
	6.1.1	Differentiate between ethical and legal issues impacting healthcare.
	6.1.2	Identify ethical issues and their implications related to healthcare (such as: organ donation, in vitro fertilization,
		euthanasia, scope of practice, ethics committee).
	6.1.3	Utilize procedures for reporting activities and behaviors that affect the health, safety, and welfare of others (such as:
Tania (2	C-141 (incident report).
Topic 6.2	Cultural,	Social, and Ethnic Diversity
	6.2.1	Student Competencies
	0.2.1	Discuss religious and cultural values as they impact healthcare (such as: ethnicity, race, religion, gender). Demonstrate respectful and empathetic treatment of ALL patients/clients (such as: customer service, patient
	6.2.2	satisfaction, civility).
		satisfaction, civinty).
Standard	SAFE	ETY PRACTICES
7	-Identij	fy existing and potential hazards to clients, co-workers, and self. Employ safe work practices and follow
•		health and safety policies and procedures to prevent injury and illness.
Topic 7.1	Infection	Control
		Student Competencies
	7.1.1	Explain principles of infection control.
	/.1.1	a. Chain of infection

	7.1.2	b. Mode of transmission (direct, indirect, vectors, common vehicle [air, food, water], healthcare-associated infections [nosocomial], opportunistic) c. Microorganisms (non-pathogenic, pathogenic, aerobic, anaerobic) d. Classifications (bacteria, protozoa, fungi, viruses, parasites) Differentiate methods of controlling the spread and growth of microorganisms. a. Aseptic control (antisepsis, disinfection, sterilization, sterile technique) b. Standard precautions c. Isolation precautions
		d. Blood borne pathogen precautions e. Vaccinations
Topic 7.2	Personal Sa	afety
		Student Competencies
	7.2.1	Apply personal safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations.
	7.2.2	Demonstrate principles of body mechanics.
Topic 7.3	Environme	ental Safety
		Student Competencies
	7.3.1	Apply safety techniques in the work environment. a. Ergonomics b. Safe operation of equipment c. Patient/client safety measures (check area for safety)
Topic 7.4	Common S	afety Hazards
		Student Competencies
	7.4.1	Observe all safety standards related to the Occupational Exposure to Hazardous Chemicals Standard (Safety Data Sheets (SDSs)). (www.osha.gov)
	7.4.2	Comply with safety signs, symbols, and labels.
Topic 7.5	Emergency	Procedures and Protocols
		Student Competencies
	7.5.1	Practice fire safety in a healthcare setting. Apply principles of besign emergency response in netural disasters and other emergencies (safe legation, contact
	7.5.2	Apply principles of basic emergency response in natural disasters and other emergencies (safe location, contact emergency personnel, follow facility protocols).

Standard	TEAMWORK		
8	-Identify roles and responsibilities of individual members as part of the healthcare team.		
Topic 8.1			
1		Student Competencies	
		Evaluate roles and responsibilities of team members.	
	8.1.1	a. Examples of healthcare teams	
	0.1.1	b. Responsibilities of team members	
		c. Benefits of teamwork	
		Identify characteristics of effective teams.	
		a. Active participation	
		b. Commitment	
		c. Common goals	
		d. Cultural sensitivity	
	8.1.2	e. Flexibility	
		f. Open to feedback	
		g. Positive attitude	
		h. Reliability	
		i. Trust	
		j. Value individual contributions	
Topic 8.2	Team Men	nber Participation	
		Student Competencies	
	8.2.1	Recognize methods for building positive team relationships (such as: mentorships and teambuilding).	
		Analyze attributes and attitudes of an effective leader.	
	022	a. Characteristics (interpersonal skills, focused on results, positive)	
	8.2.2	b. Types (autocratic, democratic, laissez faire)	
		c. Roles (sets vision, leads change, manages accountability)	
	0.2.2	Apply effective techniques for managing team conflict (negotiation, assertive communication, gather the facts,	
	8.2.3	clear expectations, mediation).	
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Standard	HEAL	TH MAINTENANCE PRACTICES	
9	-Dij	fferentiate between wellness and disease. Promote disease prevention and model healthy behaviors.	
Topic 9.1	Healthy B	· · · · · · · · · · · · · · · · · · ·	
Topic 7.1	manual D	VARM TAVAU	

		Student Competencies
	9.1.1	Promote behaviors of health and wellness (such as: nutrition, weight control, exercise, sleep habits).
		Describe strategies for prevention of disease.
		a. Routine physical exams
		b. Medical, dental, and mental health screenings
	9.1.2	c. Community health education outreach programs
		d. Immunizations
		e. Stress management
		f. Avoid risky behaviors
	9.1.3	Investigate complementary and alternative health practices as they relate to wellness and disease prevention (such as: Eastern medicine, holistic medicine, homeopathy, manipulative and natural therapies).
Standard	TECL	INICAL SKILLS
10		
10	-Apply i	technical skills required for all career specialties and demonstrate skills and knowledge as appropriate.
Topic 10.1	Technical	Skills
		Student Competencies
	10.1.1	Apply procedures for measuring and recording vital signs including the normal ranges (temperature, pulse, respirations, blood pressure, pain).
	10.1.2	Obtain training or certification in cardiopulmonary resuscitation (CPR), automated external defibrillator (AED), foreign body airway obstruction (FBAO) and first aid.
		Toleigh body an way obstruction (FBAO) and first aid.
Standard	INIEO	RMATION TECHNOLOGY APPLICATIONS
11	-	Utilize and understand information technology applications common across health professions.
Topic 11.1	Key Princ	riples of Health Information Systems
		Student Competencies
	11.1.1	Identify types of data collected in Electronic Health Records/Electronic Medical Records (EHR or EMR) (such as:
	11.1.1	history and physical, medications, diagnostic tests, patient demographics).
	11.1.2	Explore different types of health record data collection tools (such as: patient monitoring equipment, telemedicine,
		phone application, and medical wearable devices).
	11.1.3	Identify the types and content of an EHR/EMR (such as: pharmacy, laboratory, radiology).
	11.1.5	Adhere to information systems policies, procedures, and regulations as required by national, state, and local entities.

Topic 11.2	Privacy and	d Confidentiality of Health Information
		Student Competencies
	11.2.1	Apply fundamentals of privacy and confidentiality policies and procedures (HIPAA).
	11.2.3	Identify common policies and procedures for proper access, disclosure and protection of personal health
	11.2.3	information (such as: passwords, administrative safeguards, database security).
	11.2.4	Describe consequences of inappropriate use of health data in terms of disciplinary action.
	11.2.5	Understand the principle to correct inaccurate information/errors entered into an EHR/EMR (such as: adding,
	11.2.3	clarifying, and correcting information).
Topic 11.3	Basic Com	puter Skills
		Student Competencies
	11.3.1	Apply basic computer concepts and terminology necessary to use computers and other mobile devices.
	11.3.2	Demonstrate basic computer troubleshooting procedures (such as: restart, check power supply, refresh browser,
		check settings).
	11.3.3	Demonstrate use of file organization and information storage.
	11.3.4	Identify uses of basic word processing, spreadsheet, and database applications.
	11.3.5	Evaluate validity of web-based resources.
	11.2.6	Demonstrate appropriate usage of email and social media in a work environment (such as: work-related
	11.3.6	communications, personal texting on own time, appropriate language and content, use full language sentences).